In the Claims:

1-3   (Previously Cancelled)

4. (Currently Amended)   A method of programming cyclical machines having an

industrial controller, comprising the steps of:

providing the industrial controller with a runtime system, said controller having

prioritized running levels and tasks, with at least one sequential running level being

created;

formulating a machine sequence in a sequential program;, said sequential program

including specific mechanisms that enable a waiting for condition to be satisfied to be

carried out with high priority and after the waiting for condition has been satisfied, to

carry out the subsequent program sequence with high priority up to a defined user-

programmed end, ~~the running levels being assigned system and/or user programs;~~ and

utilizing said sequential program in said controller.

5. (Currently Amended)   The method of programming according to claim 4 and 7,

wherein the running levels are created from the group consisting of system levels ~~and/or,~~

user levels, and system levels and user levels.

6. (Currently Amended)   The method of programming according to claim 4, wherein

the running level model is clocked and wherein the basic clock ~~may be~~ is derived from

any of an internal timer, an internal clock of a communication medium, an external

device or a variable which belongs to the technological process.

7. (Newly Added)   The method of programming according to claim 1, wherein the running levels are selected from the group consisting of an assigned system, user program, and an assigned system and user program.